

Section 0-4: Algebraic Expressions

By the end of this lesson, you should be able to answer:

- How do you use the order of operations to evaluate algebraic expressions?

Order of Operations:

Question: What does it mean to evaluate an expression?

Example 1: Evaluate when $x = 4$ and $y = -\frac{1}{2}$.

a. $3x - 7 + 2y$

b. $-x - 8y$

Example 2: Evaluate when $x = 2$ and $y = 3$.

$$\frac{-2x + y}{3 - 5x}$$

Example 3: Evaluate when $x = 8$ and $y = -3$.

a. $2|x - y|$

b. $\frac{1}{3}|y - x|$

Problem Set:

"The true sign of intelligence is not knowledge but imagination."
- Albert Einstein